

Rebooting Civilization with Open Source Hardware

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ICT4Future Conference, Aveiro 2016

The greatest paradox

despite massive advances in science and technology, society seems to be unravelling

Why?

- growth-based economy
- artificial scarcity
- resource depletion
- capital-intensive production

Resilient Communities

- post-scarcity
- resource caring
- self-sustaining

Don't abandon

- innovation
- material comfort
- market economy

Explore

- pervasive communication
- open source technology
- local knowledge
- digital fabrication
- commons-based peer production

Where do we start?

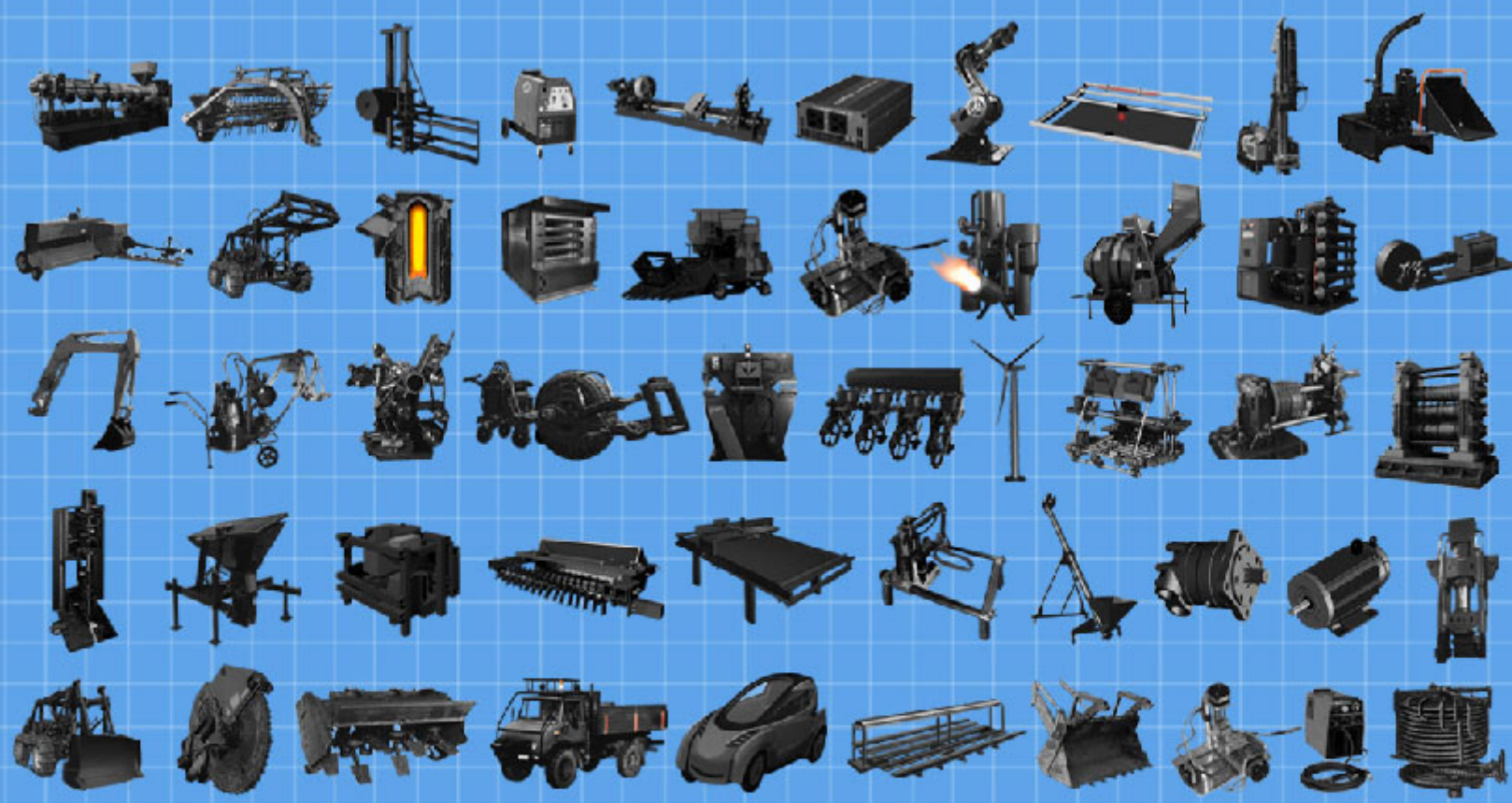
Appropriate Technology

- E.F Schumacher - *Small Is Beautiful*
- sustainable
- context-aware (ethical, economic, cultural, social, political)
- affordable
- easy to maintain and improve
- a good fit for open-source hardware

Civilization starter kit

- identify the most important machines
- identify usage contexts
- design open source DIY versions

Open Source Ecology



Global Village Construction Set

Tools that are

- robust
- modular
- efficient
- low cost
- built from local or recycled materials
- designed for a lifetime, not obsolescence

Share

- designs
- schematics
- instructional videos
- budgets

Collaborate

- wikipedia model
- open to anyone
- replication and local adaptation
- extreme manufacturing
- distributive enterprise

Divide and conquer

- 50 machines
- ~3 prototypes per machine
- ~10 modules per prototype
- ~100 steps per module
- ~150.000 chances to contribute :)

Living Lab

- Factor E Farm
- Design Sprints
- Workshops
- Project Visits

What's next?

Open Building Institute

Your Project

Start here:

- <http://opensourceecology.org>
- <http://www.appropedia.org>
- <https://lasindias.com/manifiesto-comunero>

Questions?

Thank You